

CHP CONNECTION - CAMPINA

For many years INDUSTRIUM has been conducting energy studies at FrieslandCampina in Aalter. In the early 2000s this was in connection with the Benchmarking Covenant, later in the context of the EPA energy plan or as part of environmental permit processes.

CUSTOMER

Campina

ARCHITECT / DESIGNER

LOCATION

Aalter

SURFACE

0 m²

BUDGET TECHNIQUES

STUDY PERIOD

IMPLEMENTATION PERIOD

SERVICES

Renewable energy

SECTORS

Industry



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In 2019, Friesland Campina once again brought in INDUSTRIUM to produce its Energy Plan for the 2nd EPA period (Energy Policy Agreement). INDUSTRIUM was given the opportunity to contribute to further improving the company's energy efficiency. More specifically, we zoomed in on optimizing a

number of production equipment items (evaporators, sterilizers), we examined a number of utilities (steam production master plan and the compressed air production for the PET line), LED lighting was installed and the feasibility of a CHP (combined heat and power) system in an internal heat network was demonstrated.

Shortly afterwards, Friesland Campina made the decision to implement the CHP with an electrical capacity of 1248 kWe and a thermal capacity of 1294 kW. The investment is being made by German company GETEC. Ingenium is acting as a local partner, with the following tasks:

Thermal

- Input for tender documents, specifications, P&IDs (piping and instrumentation diagrams), schedules
- Document control during execution

Electric

- Engineering the grid connection
- Engineering a new headend



Omdat Friesland Campina beschikt over een rechtstreekse aansluiting op Fluvius diende het schakelmateriaal vervangen te worden in het kader van conformiteit met de Synergrid-regelgeving. Dit vraagt om de bouw van een nieuw kopstation, inpassing van de WKK in een telecontrolesysteem zodat Fluvius de netkwaliteit kan opvolgen en automatische reactieve sturing van de WKK. INDUSTRIUM stond in voor de volledige engineering en de opmaak van alle prijsvraagdocumenten, namelijk bestek meetstaat kabelberekeningen (hoogspanning laagspanning), stuurschema's, selectie hoogspanningsmateriaal etc...

Eind 2020 werd de installatie in dienst genomen.

